Application No.: 10/566593 Docket No.: SHZ-028US

Listing of Claims:

1. (Currently Amended) An isolated DNA involved in the regeneration ability of plants, wherein the DNA is selected from the group consisting of:

- (a) a DNA encoding a protein comprising the amino acid sequence of SEQ ID NO: 3; and
- - 2. (Canceled)
- 3. (Currently Amended) An isolated DNA comprising a promoter region and a coding region of the nucleotide sequence of SEQ ID: 1 or 2.
 - 4. (Currently Amended) A vector comprising the DNA of claim 1 or 2.
 - 5. (Original) A vector comprising the DNA of claim 3.
 - 6. (Original) A host cell carrying the vector of claim 4.
 - 7. (Original) A plant cell carrying the vector of claim 4.
 - 8. (Original) A plant transformant comprising the plant cell of claim 7.
- 9. (Original) A plant transformant that is a progeny or a clone of the plant transformant of claim 8.

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10. (Currently Amended) A propagation material of the plant transformant of claim 8 or 9, wherein the propagation material retains a DNA encoding a protein comprising the amino acid sequence of SEQ ID NO:3 in the expressible manner.

- 11. (Currently Amended) A method for producing a plant transformant, wherein the method comprises the steps of introducing the DNA of claim 1 or 2 into a plant cell, and regenerating a plant from said plant cell.
- 12. (Currently Amended) A An isolated protein comprising the amino acid sequence of SEQ ID NO:3 encoded by the DNA of claim 1 or 2.
- 13. (Currently Amended) A method for producing a the protein comprising the amino acid sequence of SEQ ID NO:3 of claim 12, wherein the method comprises the steps of culturing the host cell of claim 6, and collecting a recombinant protein from said cell or the culture supernatant thereof.
 - 14. (Currently Amended) An <u>isolated</u> antibody that binds to the protein of claim 12.
 - 15. (Canceled)
- 16. (Currently Amended) A method for increasing the regeneration ability of a plant, wherein the method comprises the step of expressing the DNA of claim 1 or 2 in a cell of a plant.
- 17. (Currently Amended) An agent for altering the regeneration ability of a plant, wherein the agent comprises a the DNA encoding a protein comprising the amino acid sequence of SEQ ID NO:3 of claim 1 or 2, or the vector of claim 4 as an active ingredient.
- 18. (Currently Amended) A method for determining the regeneration ability of a plant cell, wherein the method comprises the step of detecting the expression of <u>a</u> the DNA of claim 1 or <u>a</u> the protein <u>comprising the amino acid sequence of SEQ ID NO:3</u> of claim 12-in the plant cell.

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19. (Currently Amended) A method for determining the regeneration ability of a plant cell, wherein the method comprises the step of detecting the activity of <u>a</u> the protein comprising the amino acid sequence of SEQ ID NO:3 of claim 12 in the plant cell.

- 20. (Currently Amended) A method for improving the regeneration ability of a plant, wherein the method comprises the step of regulating the activity of <u>an</u> the endogenous protein <u>comprising the amino acid sequence of SEQ ID NO:3</u> of claim 12 in the plant.
- 21. (Currently Amended) A method for selecting a transformed plant cell, wherein the method comprises the steps of:
- (a) introducing a plant cell with a vector comprising the DNA of claim 1 or 2 as a selection marker; and
- (b) culturing the plant cell and selecting plant cells that have acquired regeneration ability.
- 22. (Currently Amended) A method for altering the regeneration ability of a plant, wherein the method comprises the step of substituting the endogenous DNA of claim 1 or 2 in a plant by crossing.